DEMOLITION NOTES:

1. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS. THE CONTRACTOR SHALL ALSO PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ARCHITECT AS REQUIRED.

2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL WALK THE SITE WITH THE ARCHITECT TO GAIN A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.

3. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THIS CONTRACT.

4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.

6. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.

7. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

8. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO COMMONWEALTH/OWNER.

9. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.

10. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

11. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.

12. CONTRACTOR SHALL SUPPLY AND MAINTAIN FOR THE DURATION OF DEMOLITION ALL NECESSARY DEVICES FOR EROSION, SEDIMENT AND DUST CONTROL, ETC., INCLUDING THOSE DEVICES NECESSARY FOR STOCKPILES AND PROTECTION OF ADJACENT PUBLIC WAYS, AND SHALL REMOVE THE DEVICES AFTER PROJECT COMPLETION.

13. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC LANDS.

14. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS EFFORTS OF THE DEMOLITION AND RELATION OF UTILITIES WITH ALL TRADES, IF APPLICABLE.

15. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS APPLICABLE, AND LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR.

16. UTILITY STRUCTURES TO BE ABANDONED SHALL BE REMOVED COMPLETELY.

17. TREE AND SHRUB PROTECTION SHALL BE PER SPECIFICATIONS.

18. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED, AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE ARCHITECT.

19. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NO CLEARING WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.

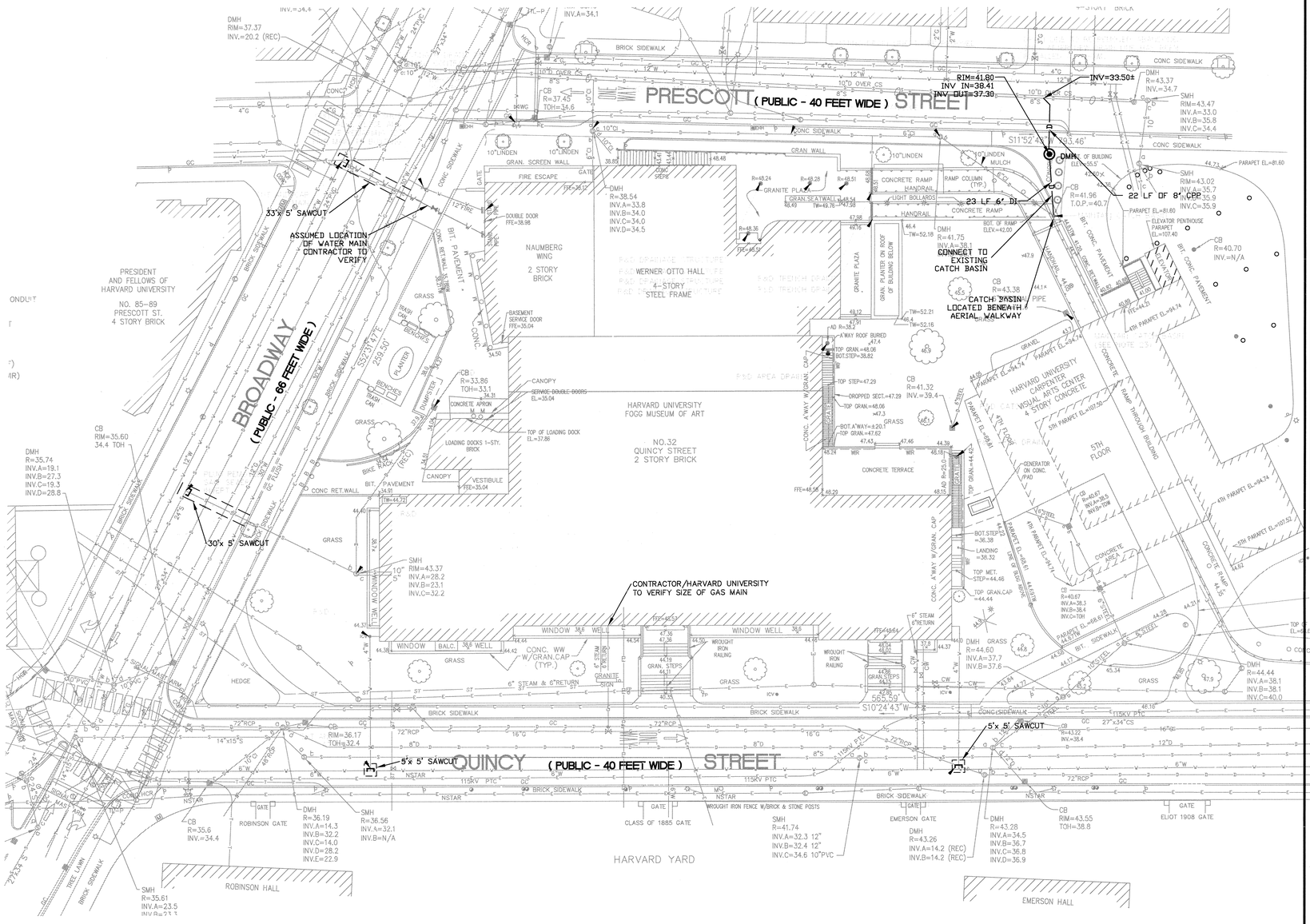
20. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.

21. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.

22. SEE SHEET C2.00 FOR ADDITIONAL NOTES.

23. CONTRACTOR TO CONFIRM CATCH BASIN DRAIN LINE CONNECTIONS ARE NOT DISRUPTED BY ABANDONMENT OF EXISTING DRAIN LINE. CONTRACTOR TO RE-ROUTE CATCH BASIN STRUCTURES IF NECESSARY.

24. UTILITY ABANDONMENT, CUTTING AND CAPPING WITHIN THE STREET RIGHT OF WAY, INCLUDING ALL STREET AND SIDEWALK RESTORATION, SHALL BE DONE TO CITY OF CAMBRIDGE STANDARDS.



LEGEND

DMH — DRAIN MANHOLE	G — GAS LINE
CB — CATCH BASIN	S — SEWER LINE
SMH — SEWER MANHOLE	T — TELEPHONE/DATA LINE
EMH — ELECTRIC MANHOLE	W — WATER LINE
TMH — TELEPHONE MANHOLE	OHW — OVERHEAD WIRES
UP — UTILITY POLE	TS — TRAFFIC SIGNAL LINE
LP — STREET LIGHT POLE	EDGE OF TREES
EHH — ELECTRIC HANDHOLE	x — CHAIN LINK FENCE
GG — GAS GATE	STONE WALL
WV — WATER VALVE	C — CUT & CAP UTILITY LINE
STORMCEPTOR UNIT	TW: 147.50 BW: 137.50 — TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
ABANDON UTILITY LINE	+148.55 — SPOT ELEVATION
C — CABLE TELEVISION LINE	TEST BORING
D — DRAIN LINE	(30) — NUMBER OF PARKING SPACES
E — UNDERGROUND ELECTRIC LINE	
ST — STEAM LINE	
ICV — IRRIGATION CONTROL VALVE	
R&D — REMOVE AND DISPOSE	

SCALE:
1" = 20'
20 10 0 20 40

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ISSUING OFFICE

DATE	ISSUANCE
11/27/2009	REV. 0 - CONTRACT DOCUMENTS
03/01/2010	REV. 1 - BULLETIN # 00002
05/14/2010	REV. 2 - BULLETIN # 00003

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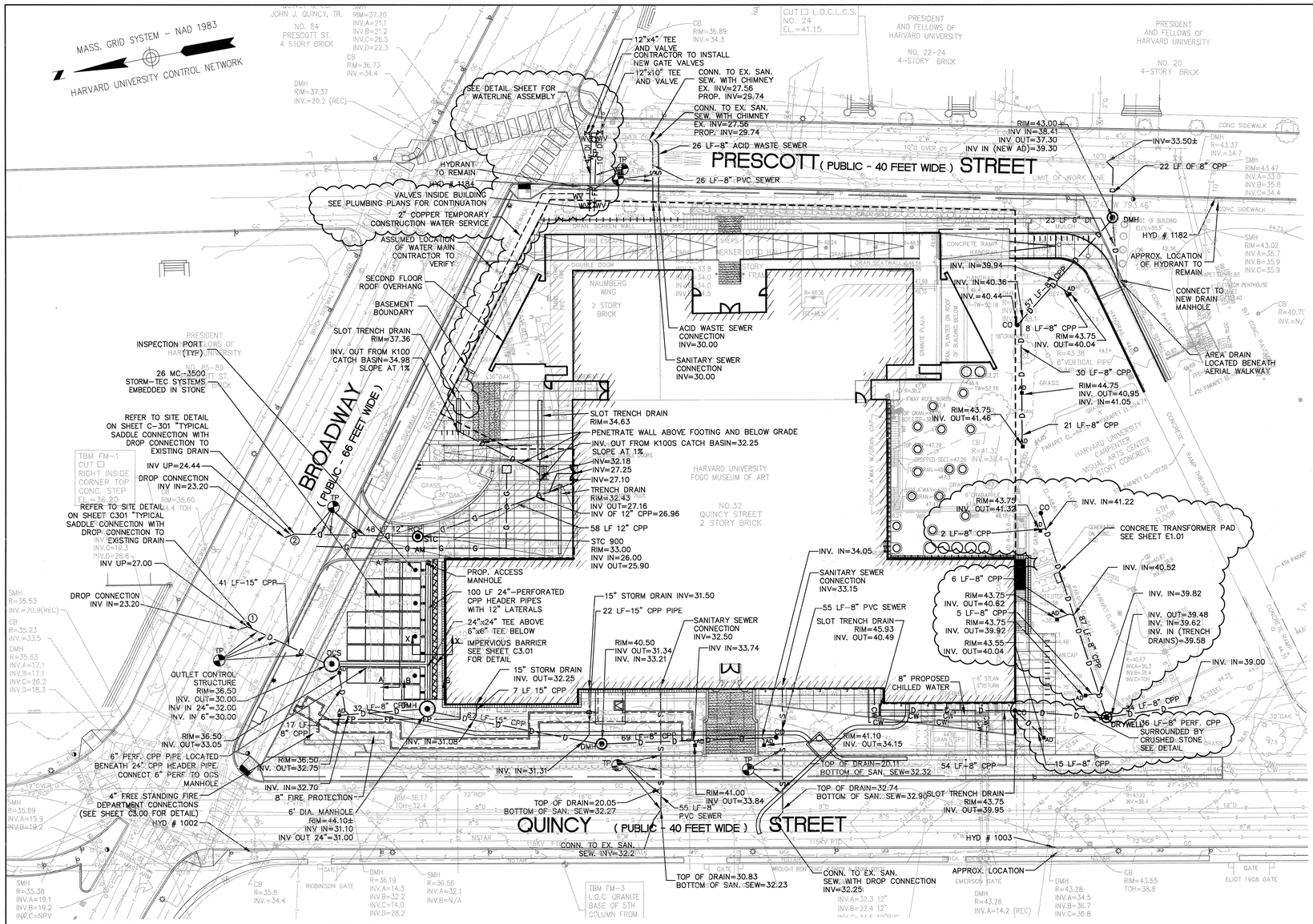
ARCHITECT'S SEAL:
DAVID M. COONEY CIVIL No. 40299 REGISTERED PROFESSIONAL ENGINEER
3/01/10

ISSUED FOR:

PROJECT NAME:
32 QUINCY STREET EXPANSION AND RENOVATION
Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138
Harvard Building No. 455
Project No. 07-001

DRAWING TITLE
SITE UTILITY PREPARATION PLAN

CAD FILE NAME	6677CUT.DWG
DRAWING SCALE	1"=20'
DRAWING NUMBER	C1.00

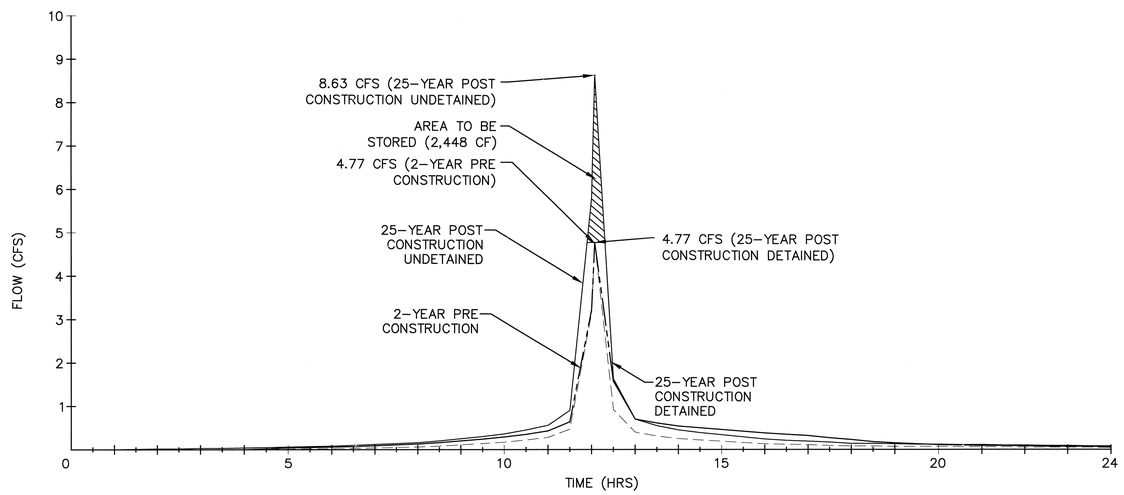

MASS. GRID SYSTEM – NAD 1983
HARVARD UNIVERSITY CONTROL NETWORK
PRESCOTT (PUBLIC - 40 FEET WIDE) STREET
BROADWAY (PUBLIC - 66 FEET WIDE)
QUINCY (PUBLIC - 40 FEET WIDE) STREET
HARVARD UNIVERSITY FOGG MUSEUM OF ART
NO.32 QUINCY STREET 2 STORY BRICK
12"x4" TEE AND VALVE CONTRACTOR TO INSTALL NEW GATE VALVES
12"x10" TEE AND VALVE
CONN. TO EX. SAN. SEW. WITH CHIMNEY EX. INV=27.56 PROP. INV=29.74
26 LF–8" ACID WASTE SEWER
26 LF–8" PVC SEWER
SEE DETAIL SHEET FOR WATERLINE ASSEMBLY
HYDRANT TO REMAIN
HYD # 1184
VALVES INSIDE BUILDING SEE PLUMBING PLANS FOR CONTINUATION
2" COPPER TEMPORARY CONSTRUCTION WATER SERVICE
ASSUMED LOCATION OF WATER MAIN CONTRACTOR TO VERIFY
SECOND FLOOR ROOF OVERHANG
BASEMENT BOUNDARY
SLOT TRENCH DRAIN RIM=37.36
INV. OUT FROM K100 CATCH BASIN=34.98 SLOPE AT 1%
26 MC–3500 STORM–TEC SYSTEMS EMBEDDED IN STONE
INSPECTION PORT (TYP.)
ACID WASTE SEWER CONNECTION INV=30.00
SANITARY SEWER CONNECTION INV=30.00
SLOT TRENCH DRAIN RIM=34.63
PENETRATE WALL ABOVE FOOTING AND BELOW GRADE
INV. OUT FROM K100S CATCH BASIN=32.25 SLOPE AT 1%
INV=32.18
INV=27.25
INV=27.10
TRENCH DRAIN RIM=32.43 INV OUT=27.16 INV OF 12" CPP=26.96
58 LF 12" CPP
STC 900 RIM=33.00 INV IN=26.00 INV OUT=25.90
REFER TO SITE DETAIL ON SHEET C–301 "TYPICAL SADDLE CONNECTION WITH DROP CONNECTION TO EXISTING DRAIN
INV UP=24.44
DROP CONNECTION INV IN=23.20
REFER TO SITE DETAIL ON SHEET C301 "TYPICAL SADDLE CONNECTION WITH DROP CONNECTION TO EXISTING DRAIN
INV UP=27.00
41 LF–15" CPP
PROP. ACCESS MANHOLE
100 LF 24"–PERFORATED CPP HEADER PIPES WITH 12" LATERALS
24"x24" TEE ABOVE 6"x6" TEE BELOW
IMPERVIOUS BARRIER SEE SHEET C3.01 FOR DETAIL
15" STORM DRAIN INV. OUT=32.25
7 LF 15" CPP
OUTLET CONTROL STRUCTURE RIM=36.50 INV. OUT=30.00 INV IN 24"=32.00 INV. IN 6"=30.00
RIM=36.50 INV. OUT=33.05
6" PERF. CPP PIPE LOCATED BENEATH 24" CPP HEADER PIPE, CONNECT 6" PERF TO OCS MANHOLE
RIM=36.50 INV. OUT=32.75
INV. IN=32.70
4" FREE STANDING FIRE DEPARTMENT CONNECTIONS (SEE SHEET C3.00 FOR DETAIL)
HYD # 1002
8" FIRE PROTECTION
6' DIA. MANHOLE RIM=44.10± INV IN=31.10 INV OUT 24"=31.00
32 LF–8" CPP
17 LF–8" CPP
62 LF–15" CPP
INV. IN=31.08
INV. IN=31.31
RIM=40.50 INV OUT=31.34 INV. IN=33.21
22 LF–15" CPP PIPE
SANITARY SEWER CONNECTION INV=32.50
INV IN=33.74
INV. IN=34.05
SANITARY SEWER CONNECTION INV=33.15
55 LF–8" PVC SEWER
SLOT TRENCH DRAIN RIM=45.93 INV. OUT=40.49
69 LF–8" CPP
RIM=41.10 INV. OUT=34.15
8" PROPOSED CHILLED WATER
TOP OF DRAIN=20.05 BOTTOM OF SAN. SEW=32.27
TOP OF DRAIN=30.83 BOTTOM OF SAN. SEW=32.23
RIM=41.00 INV. OUT=33.84
55 LF–8" PVC SEWER
CONN. TO EX. SAN. SEW. INV=32.2
CONN. TO EX. SAN. SEW. WITH DROP CONNECTION INV=32.25
TOP OF DRAIN=20.11 BOTTOM OF SAN. SEW=32.32
TOP OF DRAIN=32.74 BOTTOM OF SAN. SEW=32.90
SLOT TRENCH DRAIN RIM=43.75 INV. OUT=39.95
54 LF–8" CPP
15 LF–8" CPP
DRYWELL 35 LF–8" PERF. CPP SURROUNDED BY CRUSHED STONE SEE DETAIL
APPROX. LOCATION
HYD # 1003
RIM=43.00 INV IN=38.41 INV OUT=37.30 INV IN (NEW AD)=39.30
INV=33.50±
22 LF OF 8" CPP
23 LF 6" DI
DMH
HYD # 1182
APPROX. LOCATION OF HYDRANT TO REMAIN
CONNECT TO NEW DRAIN MANHOLE
INV. IN=39.94
INV. IN=40.36
INV.=40.44
57 LF–8" CPP
6 LF–8" CPP
RIM=43.75 INV. OUT=40.04
AREA DRAIN LOCATED BENEATH AERIAL WALKWAY
30 LF–8" CPP
RIM=44.75 INV. OUT=40.95 INV. IN=41.05
RIM=43.75 INV. OUT=41.46
21 LF–8" CPP
RIM=43.79 INV. OUT=41.32
2 LF–8" CPP
INV. IN=41.22
CONCRETE TRANSFORMER PAD SEE SHEET E1.01
6 LF–8" CPP
RIM=43.75 INV. OUT=40.62
5 LF–8" CPP
RIM=43.75 INV. OUT=39.92
RIM=43.55 INV. OUT=40.04
57 LF–8" CPP
INV. IN=40.52
INV. IN=39.82
INV. OUT=39.48
INV. IN=39.62
INV. IN (TRENCH DRAINS)=39.58
INV. IN=39.00
54 LF–8" CPP
NAUMBERG WING 2 STORY BRICK
HARVARD UNIVERSITY CARPENTER CENTER FOR THE VISUAL ARTS SENTER VISUAL ARTS CENTER CONCRETE
PRESIDENT AND FELLOWS OF HARVARD UNIVERSITY
NO. 84 PRESCOTT ST. 4 STORY BRICK
NO. 22–24 4–STORY BRICK
NO. 20 4–STORY BRICK
JOHN J. QUINCY, TR.
CUT □ L.O.C.L.C.S. NO. 24 EL.=41.15
TBM FM–1 CUT □ RIGHT INSIDE CORNER TOP CONC. STEP
TBM FM–3 L.O.C. GRANITE BASE OF 5TH COLUMN FROM
ROBINSON GATE
EMERSON GATE
ELIOT 1908 GATE

LEGEND

- DMH — DRAIN MANHOLE
- AD — AREA DRAIN
- CB — CATCH BASIN
- CO — CLEANOUT
- SMH — SEWER MANHOLE
- EMH — ELECTRIC MANHOLE
- TMH — TELEPHONE MANHOLE
- UP — UTILITY POLE
- LP — STREET LIGHT POLE
- EHH — ELECTRIC HANDHOLE
- GG — GAS GATE
- WV — WATER VALVE
- STC — STORMCEPTOR UNIT
- OCS — OUTLET CONTROL STRUCTURE
- ABANDON UTILITY LINE
- C — CABLE TELEVISION LINE
- D — DRAIN LINE
- E — UNDERGROUND ELECTRIC LINE
- FP — FIRE PROTECTION LINE
- G — GAS LINE
- S — SEWER LINE
- T — TELEPHONE/DATA LINE
- W — WATER LINE
- OW — OVERHEAD WIRES
- TS — TRAFFIC SIGNAL LINE
- EDGE OF TREES
- x — CHAIN LINK FENCE
- STONE WALL
- CUT & CAP UTILITY LINE
- TW 147.50 BW 137.50 — TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
- +148.55 — SPOT ELEVATION
- TEST BORING
- TP — TEST PIT LOCATION
- 1 — DROP CONNECTION NUMBER (SEE SHEET C3.01)
- RCP — REINFORCED CONCRETE PIPE

ABBREVIATIONS

AD	AREA DRAIN
BC	BOTTOM OF CURB
BG	BOTTOM OF STEEL GIRDER
BLDG.	BUILDING
BW	BOTTOM OF WALL
BWW	BOSTON WATER WORKS GATE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CI	CAST IRON PIPE
CLDI	CEMENT LINE DUCTILE IRON PIPE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CPP	CORROGATED PLASTIC PIPE
CSMH	COMBINED SEWER MANHOLE
DIP	DUCTILE IRON PIPE
DMH	DRAINAGE MANHOLE
EHH	ELECTRIC HANDHOLE
EMH	ELECTRIC MANHOLE
FS	FIRE SERVICE
GG	GAS GATE
GV	GAS VALVE
HP	HORSEPOWER
HYD	HYDRANT
I	INVERT ELEVATION
LF	LINEAR FEET
LOC.	LOCATION
LP	STREET LIGHT POLE
OHW	OVERHEAD WIRE
PVC	POLYVINYL CHLORIDE PIPE
R	RIM ELEVATION
RCP	REINFORCED CONCRETE PIPE
REC.	RECORD
SH	SPRINKLER HEAD
SMH	SEWER MANHOLE
TC	TOP OF CURB
TG	TOP OF STEEL GIRDER
TMH	TELEPHONE MANHOLE
TR	TOP OF RAIL ELEVATION
TW	TOP OF WALL
TYP.	TYPICAL
UP	UTILITY POLE
VCP	VETRIFIED CLAY PIPE
WG	WATER GATE
WV	WATER VALVE
W/	WITH
W/O	WITHOUT



HARVARD ART MUSEUM UNIT HYDROGRAPH

SCALE: 1" = 20'

20 10 0 20 40

GENERAL NOTES

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITION PLAN", PREPARED BY CHAS H. SELLS INC., DATED MARCH 12, 2007.
2. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO NITSCH ENGINEERING.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1–888–DIG–SAFE.
4. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE CITY OF CAMBRIDGE. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED BEFORE STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OF ANY UTILITIES WITHIN THE JURISDICTION OF ANY UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS, AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 48 HOURS AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION. CONSTRUCTION SHALL NOT INTERFERE WITH OR INTERRUPT UTILITIES WHICH ARE TO REMAIN IN OPERATION.
5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
6. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMITS OF REGRADING AND WORK AS SHOWN ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
7. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE CLEARANCE WORK.
8. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, GRANITE CURBING, CEMENT CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.
9. FOR SITE LAYOUT, GRADING, MATERIALS, PLANTINGS, GROUND COVER, EROSION CONTROL, AND DETAILS SEE LANDSCAPE ARCHITECT'S DRAWINGS.
10. FOR STRUCTURAL DETAILS AND INFORMATION SEE STRUCTURAL DRAWINGS.
11. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE CITY OF CAMBRIDGE.
12. ELEVATIONS REFER TO CAMBRIDGE CITY DATUM.
13. GAS, TELEPHONE AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC AND PLUMBING CONSULTANTS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND DESIGN OF NEW UTILITIES WITH ELECTRIC, CABLE TELEVISION AND TELECOMMUNICATION UTILITIES.
14. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET.
15. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18" OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10–FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
16. UTILITY STRUCTURES TO BE ABANDONED SHALL BE REMOVED TO A DEPTH OF NO LESS THAN 3 FEET BELOW FINISHED GRADE, THE BOTTOMS OF THE STRUCTURES SHALL BE BROKEN AND THE STRUCTURES SHALL BE BACKFILLED WITH GRAVEL BORROW AND COMPACTED.
17. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED OR REMOVED & DISPOSED.
18. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR THE GAS LINE INSTALLATION.
19. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.
20. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.
21. CONTRACTOR SHALL REPORT ALL TEST PIT INFORMATION TO CIVIL ENGINEER FOR UTILITY COORDINATION.
22. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
23. IN AREAS WHERE TEST PITS ARE INDICATED, THE CONTRACTOR SHALL EXCAVATE THE ROUTE OF THE PROPOSED UTILITY IN ITS ENTIRITY. THE CONTRACTOR SHALL CLEARLY DOCUMENT THE LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES. IF THE LOCATION AND ELEVATION OF THE EXISTING UTILITIES PRECLUDES THE INSTALLATION OF THE PROPOSED UTILITIES AS DESIGNED, THE CONTRACTOR SHALL CONTACT NITSCH ENGINEERING IMMEDIATELY.

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Nitsch Engineering

ISSUING OFFICE	
DATE	ISSUANCE
03/01/2010	REV 0– CONTRACT DOCUMENTS
03/29/2010	REV 1– BULLETIN #00004
05/14/2010	REV 2– BULLETIN #00013
06/21/2010	REV 3– BULLETIN #00014
07/30/2010	REV 4– BULLETIN #00024

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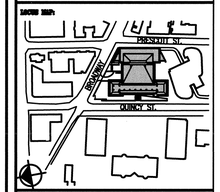
ARCHITECT'S SEAL:

LOCUS MAP:



PROJECT NAME:

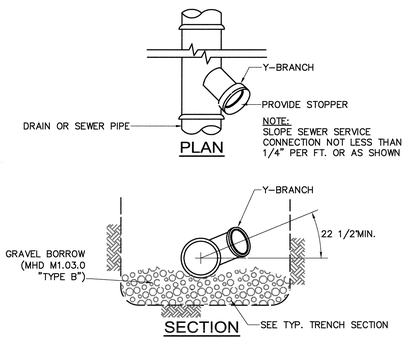
32 QUINCY STREET EXPANSION AND RENOVATION

Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138

Harvard Building No. 455
Project No. 07–001

DRAWING TITLE: SITE UTILITY PLAN

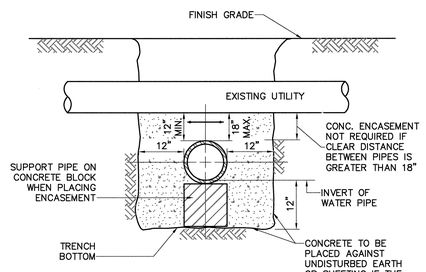
CAD FILE NAME	6677CUT.DWG
DRAWING SCALE	1"=20'
DRAWING NUMBER	C2.00



WYE BRANCH FOR PIPE SERVICE CONNECTION DETAIL

NOT TO SCALE

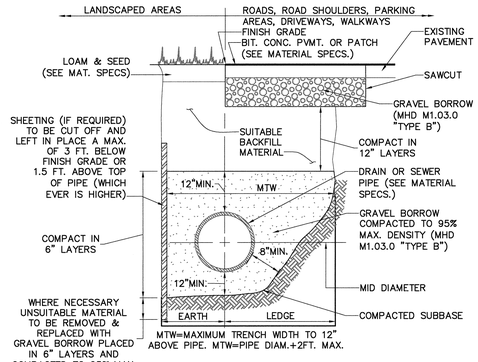
Y-BRANCH


FINISH GRADE
EXISTING UTILITY
12" MIN.
60° MAX.
12"
12"
CONC. ENCASEMENT NOT REQUIRED IF CLEAR DISTANCE BETWEEN PIPES IS GREATER THAN 18"
SUPPORT PIPE ON CONCRETE BLOCK WHEN PLACING ENCASEMENT
INVERT OF WATER PIPE
TRENCH BOTTOM
CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH OR SHEETING IF THE SHEETING IS TO REMAIN IN PLACE.
NOTE: PIPE MUST BE BRACED VERTICALLY & HORIZONTALLY TO PREVENT FLOATATION DURING PLACEMENT OF CONCRETE

CONCRETE ENCASEMENT DETAIL AT UTILITY CROSSINGS

NOT TO SCALE

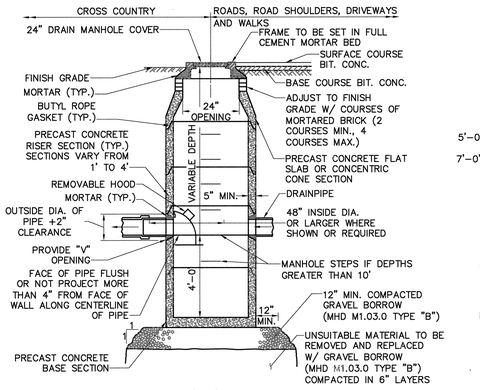
CONCENC


LANDSCAPED AREAS
ROADS, ROAD SHOULDERS, PARKING AREAS, DRIVEWAYS, WALKWAYS
FINISH GRADE
BIT. CONC. PVMT. OR PATCH (SEE MATERIAL SPECS.)
EXISTING PAVEMENT
LOAM & SEED (SEE MAT. SPECS)
SAWCUT
GRAVEL BORROW (MHD M1.03.0 "TYPE B")
SHEETING (IF REQUIRED) TO BE CUT OFF AND LEFT IN PLACE A MAX. OF 3 FT. BELOW FINISH GRADE OR 1.5 FT. ABOVE TOP OF PIPE (WHICH EVER IS HIGHER)
SUITABLE BACKFILL MATERIAL
COMPACT IN 12" LAYERS
12"MIN.
MTW
DRAIN OR SEWER PIPE (SEE MATERIAL SPECS.)
8"MIN.
GRAVEL BORROW COMPACTED TO 95% MAX. DENSITY (MHD M1.03.0 "TYPE B")
COMPACT IN 6" LAYERS
12"MIN.
MID DIAMETER
WHERE NECESSARY UNSUITABLE MATERIAL TO BE REMOVED & REPLACED WITH GRAVEL BORROW PLACED IN 6" LAYERS AND COMPACTED TO 95% MAX. DENSITY
EARTH
LEDGE
COMPACTED SUBBASE
MTW=MAXIMUM TRENCH WIDTH TO 12" ABOVE PIPE. MTW=PIPE DIAM.+2FT. MAX.

STANDARD TRENCH DETAIL FOR UTILITY PIPE

NOT TO SCALE

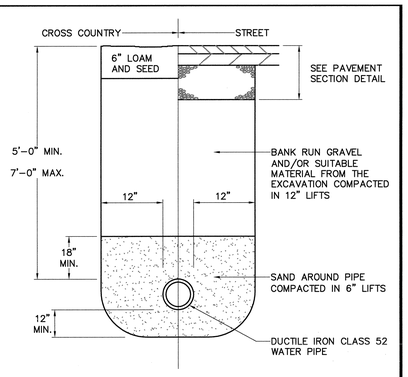
STTRENCH


CROSS COUNTRY
ROADS, ROAD SHOULDERS, DRIVEWAYS AND WALKS
24" DRAIN MANHOLE COVER
FRAME TO BE SET IN FULL CEMENT MORTAR BED
SURFACE COURSE BIT. CONC.
FINISH GRADE
MORTAR (TYP.)
BASE COURSE BIT. CONC.
BUTYL ROPE GASKET (TYP.)
ADJUST TO FINISH GRADE W/ COURSES OF MORTARED BRICK (2 COURSES MIN., 4 COURSES MAX.)
24" OPENING
PRECAST CONCRETE RISER SECTION (TYP.) SECTIONS VARY FROM 1' TO 4'
VARIABLE DEPTH
PRECAST CONCRETE FLAT SLAB OR CONCENTRIC CONE SECTION
REMOVABLE HOOD
MORTAR (TYP.)
5" MIN.
DRAINPIPE
OUTSIDE DIA. OF PIPE +2" CLEARANCE
48" INSIDE DIA. OR LARGER WHERE SHOWN OR REQUIRED
PROVIDE "V" OPENING
MANHOLE STEPS IF DEPTHS GREATER THAN 10'
FACE OF PIPE FLUSH OR NOT PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE
4'-0"
12" MIN. COMPACTED GRAVEL BORROW (MHD M1.03.0 TYPE "B")
12" MIN.
UNSUITABLE MATERIAL TO BE REMOVED AND REPLACED W/ GRAVEL BORROW (MHD M1.03.0 TYPE "B") COMPACTED IN 6" LAYERS
PRECAST CONCRETE BASE SECTION

DRAIN MANHOLE WITH SUMP DETAIL

NOT TO SCALE

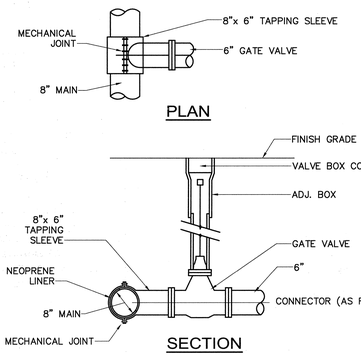
DMH-SUMP



WATER TRENCH DETAIL

NOT TO SCALE

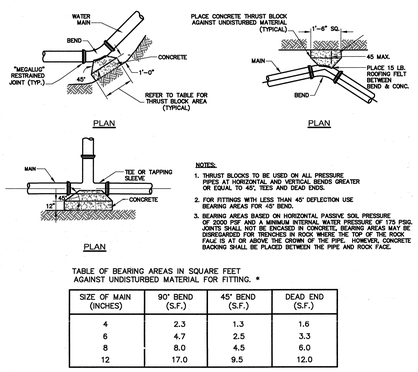
WTRENCH



TAPPING SLEEVE, VALVE & BOX DETAIL

NOT TO SCALE

TAPSLEEV



NOTES:
1. THRUST BLOCKS TO BE USED ON ALL PRESSURE PIPES AT HORIZONTAL AND VERTICAL BENDS GREATER OR EQUAL TO 45°, TEES AND DEAD ENDS.
2. FOR FITTINGS WITH LESS THAN 45° DEFLECTION USE BEARING AREAS FOR 45° BEND.
3. BEARING AREAS BASED ON HORIZONTAL PASSIVE SOIL PRESSURE OF 2000 PSF AND A MINIMUM INTERNAL WATER PRESSURE OF 175 PSIG. JOINTS SHALL NOT BE ENCASED IN CONCRETE. BEARING AREAS MAY BE DISREGARDED FOR TRENCHED IN ROCK WHERE THE TOP OF THE ROCK FALL IS AT OR ABOVE THE CROWN OF THE PIPE. HOWEVER, CONCRETE BACKING SHALL BE PLACED BETWEEN THE PIPE AND ROCK FACE.

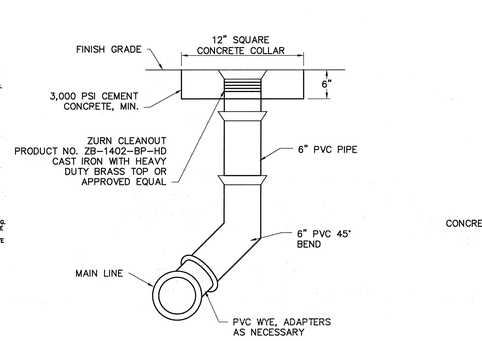
TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR FITTING. *

SIZE OF MAIN (INCHES)	90° BEND (S.F.)	45° BEND (S.F.)	DEAD END (S.F.)
4	2.3	1.3	1.6
6	4.7	2.5	3.3
8	8.0	4.5	6.0
12	17.0	9.5	12.0

THRUST BLOCK DETAILS

NOT TO SCALE

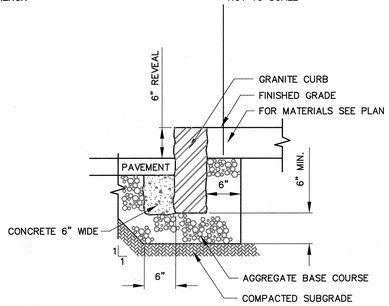
CONCENC


FINISH GRADE
12" SQUARE CONCRETE COLLAR
6"
3,000 PSI CEMENT CONCRETE, MIN.
6" PVC PIPE
ZURN CLEANOUT PRODUCT NO. ZB-1402-BP-HD CAST IRON WITH HEAVY DUTY BRASS TOP OR APPROVED EQUAL
6" PVC 45° BEND
MAIN LINE
PVC WYE, ADAPTERS AS NECESSARY

TYPICAL CLEANOUT DETAIL

NOT TO SCALE

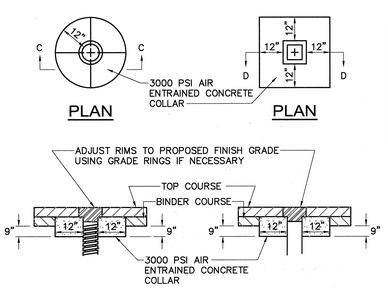
CLEANOUT



VERTICAL GRANITE CURB

NOT TO SCALE

CURB-GR-V



SECTION C-C ROUND

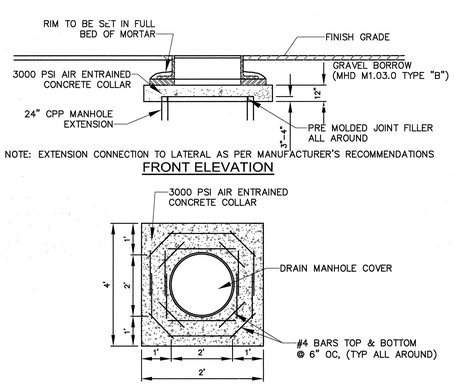
SECTION D-D SQUARE

NOTE:
ALL GATE BOX RIMS TO BE RAISED TO FINISH GRADE AFTER BINDER COURSE OR LEVELING COURSE PVMT HAS BEEN PLACED.

WATER GATE BOX DETAIL

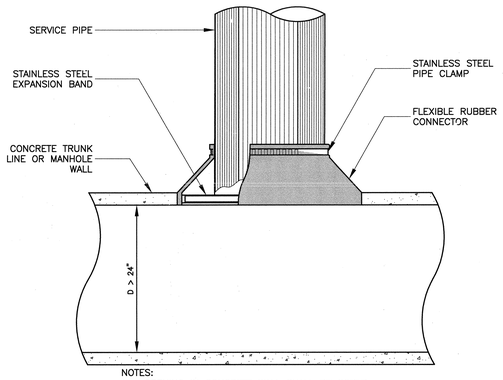
NOT TO SCALE

WGBOX



ACCESS MANHOLE DETAIL

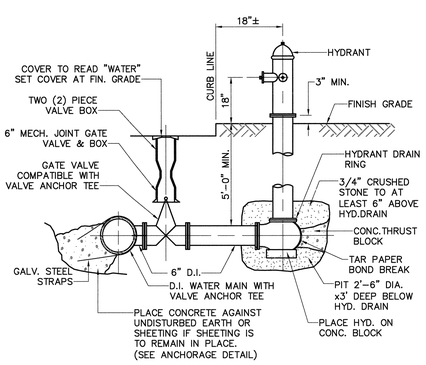
NOT TO SCALE



NOTES:
1. OPENING IN CONCRETE WALL SHALL BE CORED USING HIGH SPEED DIAMOND DRILL.
2. ALL METAL FIXTURES SHALL BE OF STAINLESS STEEL.
3. SERVICE LINE SHALL BE FLUSH WITH THE INSIDE OF THE CONCRETE PIPE OR WALL.
4. IF TRUNK LINE DIAMETER IS LESS THAN 24" THEN A SADDLE TYPE CONNECTION WILL BE USED.

TYPICAL FIELD CONNECTION TO LARGE CONCRETE PIPE OR CONCRETE MANHOLE

NOT TO SCALE

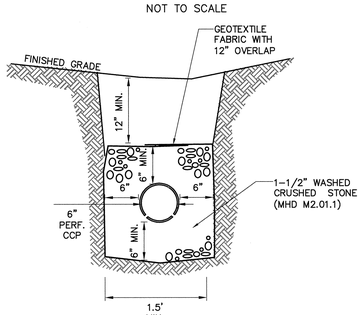

18"±
HYDRANT
COVER TO READ "WATER" SET COVER AT FIN. GRADE
CURB LINE
18"
3" MIN.
TWO (2) PIECE VALVE BOX
FINISH GRADE
6" MECH. JOINT GATE VALVE & BOX
HYDRANT DRAIN RING
GATE VALVE COMPATIBLE WITH VALVE ANCHOR TEE
5'-0" MIN.
3/4" CRUSHED STONE TO AT LEAST 6" ABOVE HYD.DRAIN
CONC.THRUST BLOCK
TAR PAPER BOND BREAK
GALV. STEEL STRAPS
6" D.I.
D.I. WATER MAIN WITH VALVE ANCHOR TEE
PIT 2'-6" DIA. x3' DEEP BELOW HYD. DRAIN
PLACE CONCRETE AGAINST UNDISTURBED EARTH OR SHEETING IF SHEETING IS TO REMAIN IN PLACE. (SEE ANCHORAGE DETAIL)
PLACE HYD. ON CONC. BLOCK

NOTE: ALL JOINTS ON HYDRANT BRANCH TO BE RESTRAINED JOINTS

FIRE HYDRANT DETAIL

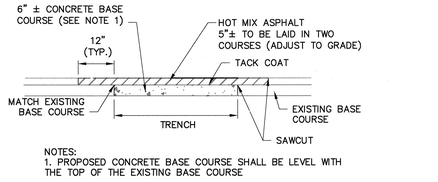
NOT TO SCALE

HYD



FOOTING DRAIN

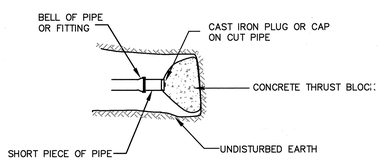
NOT TO SCALE


6" ± CONCRETE BASE COURSE (SEE NOTE 1)
HOT MIX ASPHALT 5"± TO BE LAID IN TWO COURSES (ADJUST TO GRADE)
12" (TYP.)
TACK COAT
MATCH EXISTING BASE COURSE
EXISTING BASE COURSE
TRENCH
SAWCUT

NOTES:
1. PROPOSED CONCRETE BASE COURSE SHALL BE LEVEL WITH THE TOP OF THE EXISTING BASE COURSE

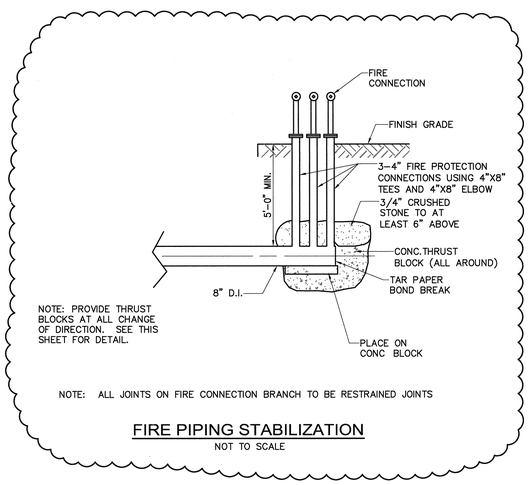
PAVEMENT RESTORATION OVER TRENCH

NOT TO SCALE



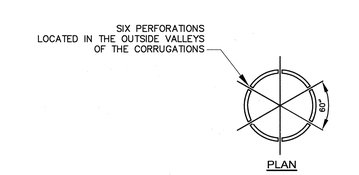
PLUG AND CAP

NOT TO SCALE


FIRE CONNECTION
FINISH GRADE
5'-0" MIN.
3-4" FIRE PROTECTION CONNECTIONS USING 4"X8" TEES AND 4"X8" ELBOW
3/4" CRUSHED STONE TO AT LEAST 6" ABOVE
CONC.THRUST BLOCK (ALL AROUND)
TAR PAPER BOND BREAK
8" D.I.
NOTE: PROVIDE THRUST BLOCKS AT ALL CHANGE OF DIRECTION. SEE THIS SHEET FOR DETAIL.
PLACE ON CONC BLOCK
NOTE: ALL JOINTS ON FIRE CONNECTION BRANCH TO BE RESTRAINED JOINTS

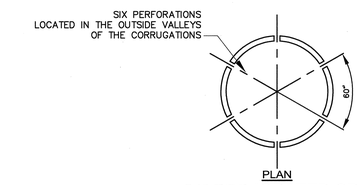
FIRE PIPING STABILIZATION

NOT TO SCALE



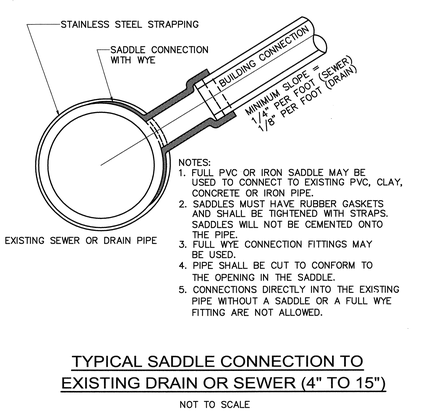
6" PERFORATED CPP

NOT TO SCALE



24" PERFORATED CPP

NOT TO SCALE


STAINLESS STEEL STRAPPING
SADDLE CONNECTION WITH WYE
BUILDING CONNECTION
MINIMUM SLOPE = 1/4" PER FOOT (SEWER) 1/8" PER FOOT (DRAIN)
EXISTING SEWER OR DRAIN PIPE

NOTES:
1. FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE OR IRON PIPE.
2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
3. FULL WYE CONNECTION FITTINGS MAY BE USED.
4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.

TYPICAL SADDLE CONNECTION TO EXISTING DRAIN OR SEWER (4" TO 15")

NOT TO SCALE

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Nitsch Engineering

DATE	ISSUANCE
11/27/2009	REV 0 – CONTRACT DOCUMENTS
05/01/2010	REV 1 – BULLETIN # 00002
08/31/2010	REV 2 – BULLETIN #00004

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ARCHITECT'S STAMP:

SEAL DATE:

PROJECT NAME:

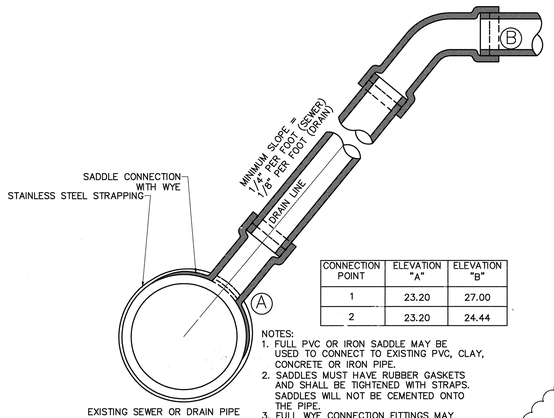
32 QUINCY STREET EXPANSION AND RENOVATION

Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138

Harvard Building No. 455
Project No. 07-001

DRAWING TITLE
SITE UTILITY DETAILS

CAD FILE NAME	6677CDT.DWG
DRAWING SCALE	AS_SHOWN
DRAWING NUMBER	C3.00

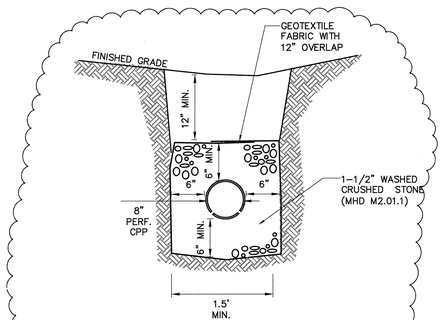


CONNECTION POINT	ELEVATION "A"	ELEVATION "B"
1	23.20	27.00
2	23.20	24.44

NOTES:
1. FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE OR IRON PIPE.
2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
3. FULL WYE CONNECTION FITTINGS MAY BE USED.
4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.

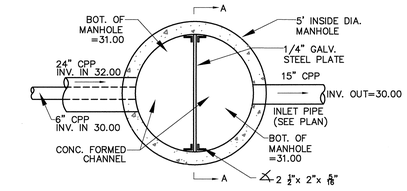
TYPICAL SADDLE CONNECTION WITH DROP CONNECTION TO EXISTING DRAIN

NOT TO SCALE

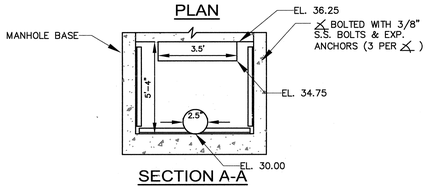


PERFORATED PIPE IN CRUSHED STONE

NOT TO SCALE



PLAN

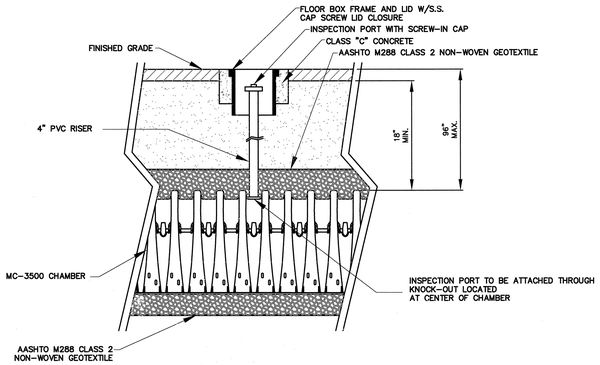


SECTION A-A

OUTLET CONTROL STRUCTURE

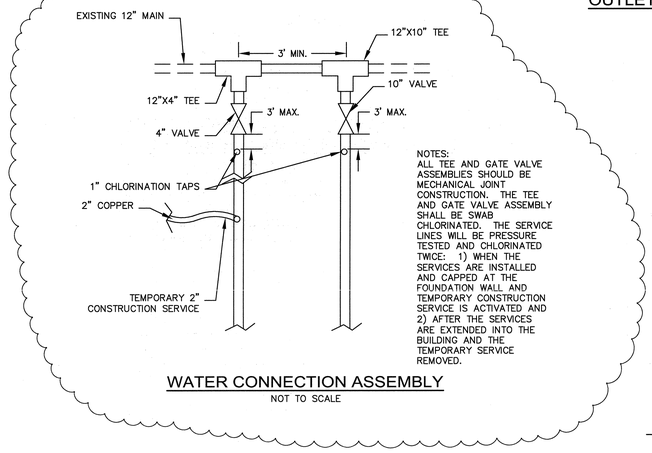
NOT TO SCALE

OUTLET-CONT2


FINISHED GRADE
FLOOR BOX FRAME AND LID W/S.S. CAP SCREW LID CLOSURE
INSPECTION PORT WITH SCREW-IN CAP
CLASS "C" CONCRETE
AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE
4" PVC RISER
18" MIN.
96" MAX.
MC-3500 CHAMBER
INSPECTION PORT TO BE ATTACHED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER
AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE

STORM-TEC INSPECTION CHAMBER DETAIL

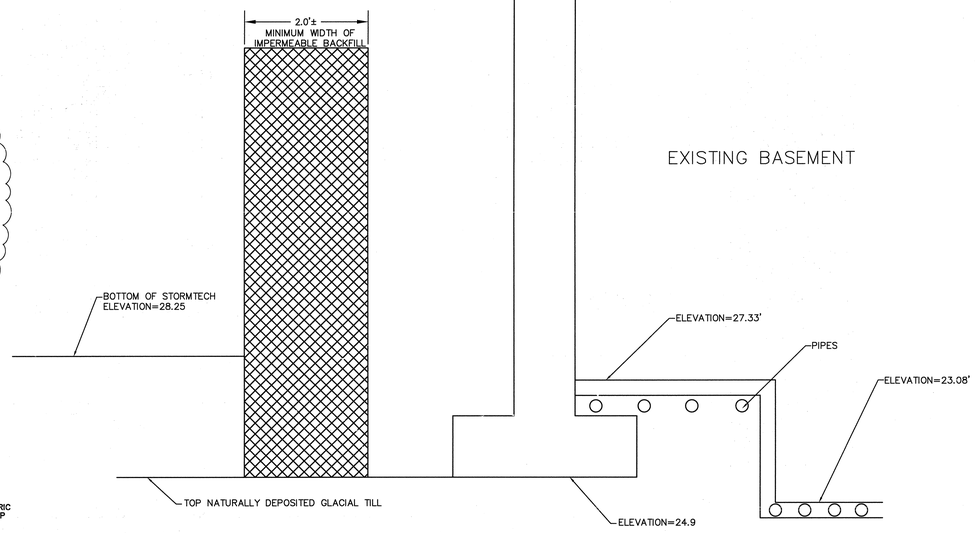
NOT TO SCALE



NOTES:
ALL TEE AND GATE VALVE ASSEMBLIES SHOULD BE MECHANICAL JOINT CONSTRUCTION. THE TEE AND GATE VALVE ASSEMBLY SHALL BE SWAB CHLORINATED. THE SERVICE LINES WILL BE PRESSURE TESTED AND CHLORINATED TWICE: 1) WHEN THE SERVICES ARE INSTALLED AND CAPPED AT THE FOUNDATION WALL AND TEMPORARY CONSTRUCTION SERVICE IS ACTIVATED AND 2) AFTER THE SERVICES ARE EXTENDED INTO THE BUILDING AND THE TEMPORARY SERVICE REMOVED.

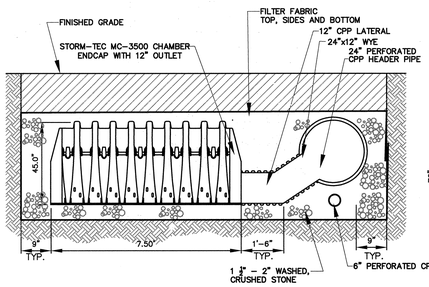
WATER CONNECTION ASSEMBLY

NOT TO SCALE



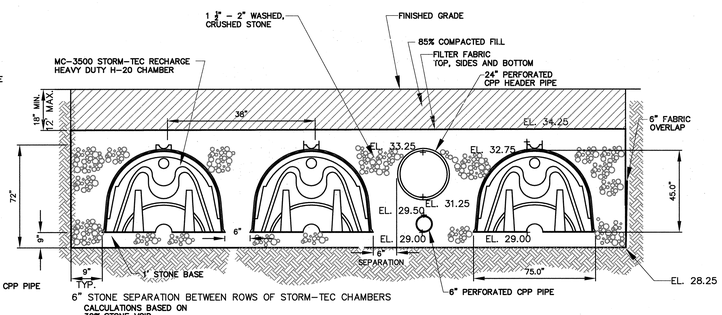
SECTION X-X

NOT TO SCALE



STORM-TEC CHAMBER SYSTEM CROSS SECTION B-B

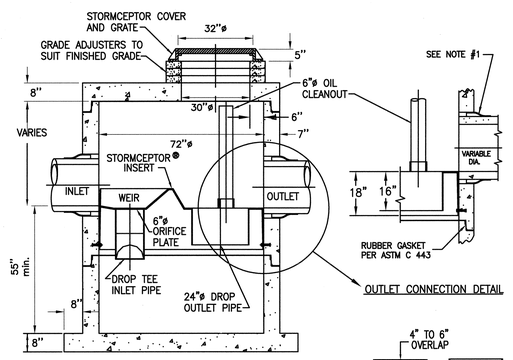
NOT TO SCALE



6" STONE SEPARATION BETWEEN ROWS OF STORM-TEC CHAMBERS
CALCULATIONS BASED ON 30% STONE VOID

STORM-TEC CHAMBER SYSTEM CROSS SECTION A-A

NOT TO SCALE



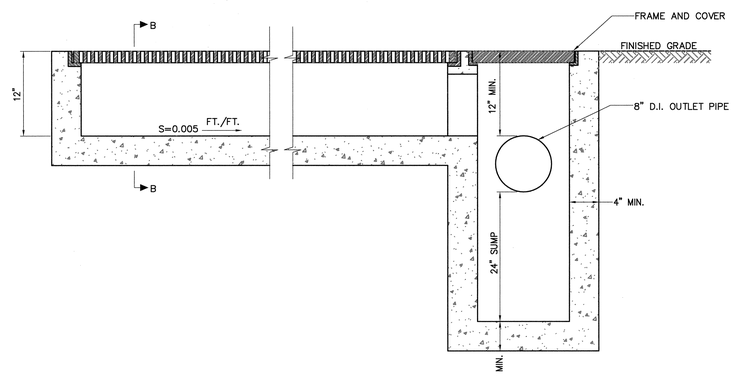
SECTION THRU CHAMBER

ENLARGED INLET TEE DROP PIPE

NOTE :
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE OIL CLEANOUT PIPE.
3. THE STORMCEPTOR SYSTEM IS PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: #4985148, #5498331, #5725760, #5753115, #5849181.

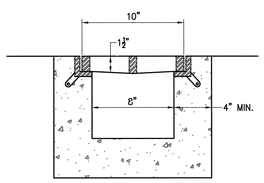
STORMCEPTOR STC900

NOT TO SCALE



TRENCH DRAIN AT LOADING DOCK

NOT TO SCALE



SECTION B-B

NOTES:

1. PROVIDE NEENAH MODEL R-4990-BX HEAVY DUTY TRENCH FRAMES WITH GRATED COVER OR EQUAL.
2. USE TYPE P GRATE OPENINGS.

TRENCHDRAIN

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Nitsch Engineering

DATE	REVISION
03/01/2010	REV 0- CURRENT DOCUMENT
05/14/2010	REV 1- BULLETIN #20063
07/30/2010	REV 2- BULLETIN #20094

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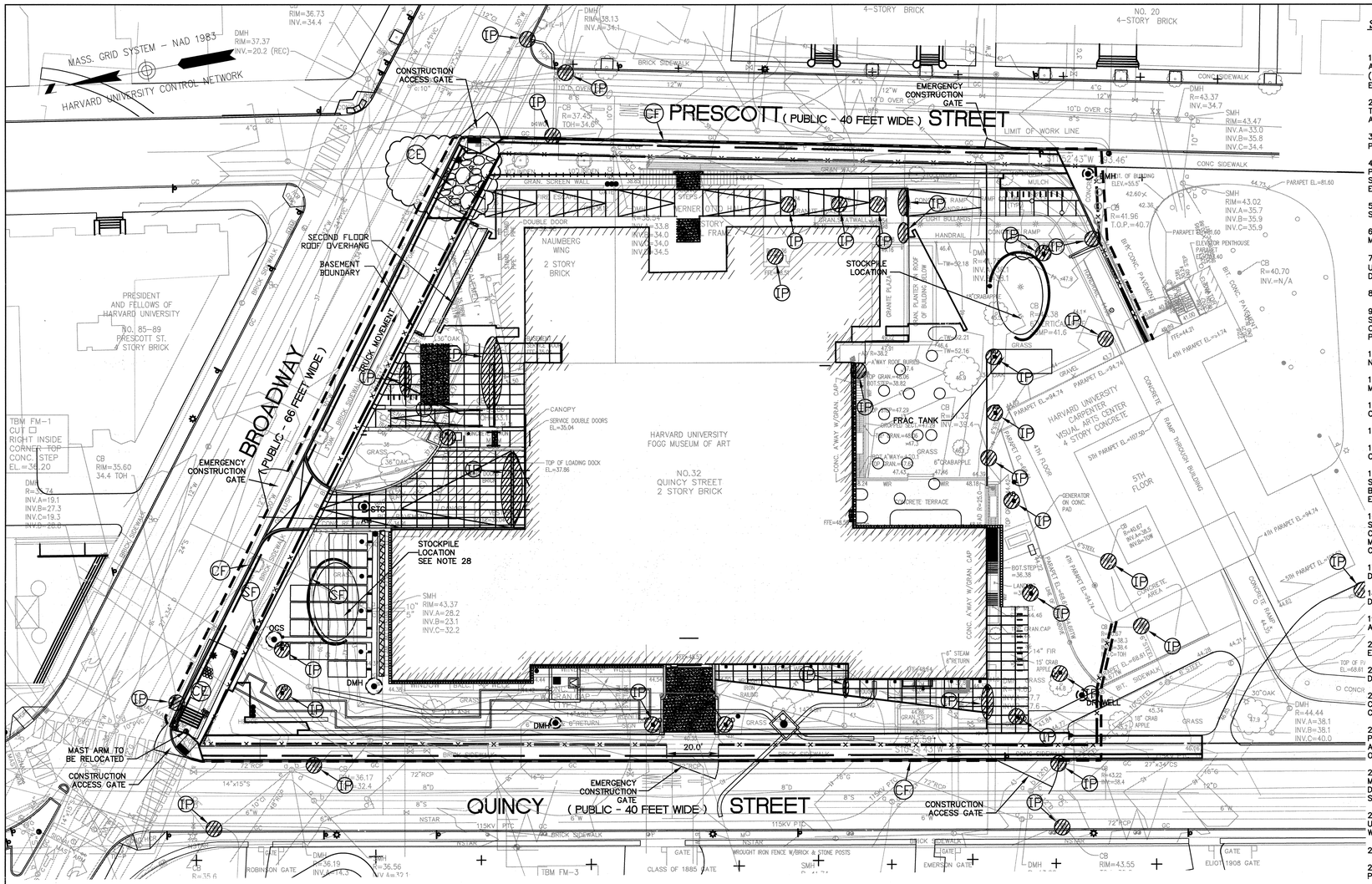
ARCHITECT'S SEAL
DAVID M. CONWAY CIVIL No. 49228 REGISTERED PROFESSIONAL ENGINEER
03/01/10

LOCUS MAP
PRESCOTT ST.
BROADWAY
QUINCY ST.

PROJECT TITLE
32 QUINCY STREET EXPANSION AND RENOVATION
Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138
Harvard Building No. 455
Project No. 07-001

DRAWING TITLE
SITE UTILITY DETAILS

CAD FILE NAME	6677CDT.DWG
DRAWING SCALE	AS_SHOWN
DRAWING NUMBER	C3.01


MASS. GRID SYSTEM - NAD 1983
HARVARD UNIVERSITY CONTROL NETWORK
DMH RIM=37.37 INV.=20.2 (REC)
CONSTRUCTION ACCESS GATE
PRESCOTT (PUBLIC - 40 FEET WIDE) STREET
EMERGENCY CONSTRUCTION GATE
LIMIT OF WORK LINE
4-STORY BRICK
NO. 20
4-STORY BRICK
SECOND FLOOR ROOF OVERHANG
BASEMENT BOUNDARY
NAUMBERG WING
2 STORY BRICK
STOCKPILE LOCATION
PRESIDENT AND FELLOWS OF HARVARD UNIVERSITY
NO. 85-89 PRESCOTT ST.
4 STORY BRICK
BROADWAY (PUBLIC - 66 FEET WIDE)
TRUCK MOVEMENT
HARVARD UNIVERSITY FOGG MUSEUM OF ART
NO.32 QUINCY STREET 2 STORY BRICK
FRAG. TANK
HARVARD UNIVERSITY VISUAL ARTS CENTER 4 STORY CONCRETE
5TH FLOOR
4TH FLOOR
GENERATOR ON CONC. PAD
CONCRETE RAMP THROUGH BUILDING
TBM FM-1 CUT □ RIGHT INSIDE CORNER TOP CONC. STEP EL.=36.20
EMERGENCY CONSTRUCTION GATE
STOCKPILE LOCATION SEE NOTE 28
MAST ARM TO BE RELOCATED
CONSTRUCTION ACCESS GATE
20.0'
EMERGENCY CONSTRUCTION GATE (PUBLIC - 40 FEET WIDE) QUINCY STREET
CONSTRUCTION ACCESS GATE
ROBINSON GATE
CLASS OF 1885 GATE
EMERSON GATE
ELIOT 1908 GATE
WROUGHT IRON FENCE W/BRICK & STONE POSTS
TBM FM-3

LEGEND

- DMH — DRAIN MANHOLE
- CB — CATCH BASIN
- SMH — SEWER MANHOLE
- EMH — ELECTRIC MANHOLE
- TMH — TELEPHONE MANHOLE
- UP — UTILITY POLE
- LP — STREET LIGHT POLE
- EHH — ELECTRIC HANDHOLE
- GG — GAS GATE
- WV — WATER VALVE
- STORMCEPTOR UNIT
- ABANDON UTILITY LINE
- C — CABLE TELEVISION LINE
- D — DRAIN LINE
- E — UNDERGROUND ELECTRIC LINE
- G — GAS LINE
- S — SEWER LINE
- T — TELEPHONE/DATA LINE
- W — WATER LINE
- OH — OVERHEAD WIRES
- TS — TRAFFIC SIGNAL LINE
- EDGE OF TREES
- X — CHAIN LINK FENCE
- STONE WALL
- C — CUT & CAP UTILITY LINE
- TW: 147.50 BW: 137.50 — TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION
- +148.55 — SPOT ELEVATION
- TEST BORING
- CF — CONSTRUCTION FENCE
- SF — SILTATION FENCE
- IP — INLET PROTECTION
- CE — CONSTRUCTION ENTRANCE

SEDIMENTATION AND EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH PUBLISHED EROSION CONTROL AND SEDIMENT GUIDELINES FOR MASSACHUSETTS ("EROSION AND SEDIMENT CONTROL GUIDELINES" COMMONWEALTH OF MASSACHUSETTS, DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING, AUGUST 1983, OR LATEST EDITION.)

2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF ANY EXISTING SURFACE MATERIAL ON SITE.

3. ALL GRADING ACTIVITIES AND CONTROL MEASURES SHALL BE RECORDED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

4. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO INSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. INSPECTION AND MAINTENANCE SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY CONSTRUCTION GENERAL PERMIT ESTABLISHED UNDER THE CLEAN WATER ACT.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.

6. ALL POINTS OF CONSTRUCTION INGRESS OR EGRESS WILL BE PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.

7. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAINAGE SYSTEM (I.E. THROUGH THE USE OF HAY BALES, CATCH BASIN SEDIMENT TRAPS, GRAVEL, BOARDS OR OTHER APPLICABLE METHODS), DISCHARGING TO WETLAND RESOURCE AREAS, OR ABUTTING PROPERTIES.

8. ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED.

9. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 1/2 INCH OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY AND RECORDED IN THE SWPPP. INSPECTIONS SHALL BE MADE BY A QUALIFIED PERSON.

10. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL DEVICES WHERE NECESSARY AND RECORD THE PLACEMENT OF THE DEVICES IN THE SWPPP.

11. ALL STOCK PILES SHALL BE PROTECTED AND WITHIN THE LIMIT OF WORK. EROSION CONTROL MEASURES SHALL BE PLACED AROUND THE STOCKPILE TO REDUCE SEDIMENT TRANSPORTATION.

12. ALL STOCKPILES SHALL BE TEMPORARILY SEEDED IF LEFT UNDISTURBED FOR MORE THAN 14 CALENDAR DAYS.

13. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEPT AT THE END OF EACH WORKING DAY.

14. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.

15. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AS DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

16. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS AND ANY DENUDED SURFACE WHICH WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE MULCHED WITH STRAW OR TEMPORARILY SEEDED. MULCH SHALL BE SPREAD UNIFORMLY IN A CONTINUOUS BLANKET OF SUFFICIENT THICKNESS TO COMPLETELY HIDE THE SOIL FROM VIEW.

17. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE THE CITY OF CAMBRIDGE.

18. GRAVEL CHECK DAMS ARE TO BE PROVIDED PER THE DETAIL FOR ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.

19. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED ON THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.

20. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM.

21. ADDITIONAL EROSION AND SEDIMENT DEVICES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE CITY OF CAMBRIDGE.

22. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE CITY OF CAMBRIDGE CONSERVATION AGENT.

23. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE THE MINIMUM PROVISIONS NECESSARY. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, AT NO ADDITIONAL EXPENSE TO THE OWNER.

24. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 CALENDAR DAYS SHALL BE SEEDED WITH AN ANNUAL RYE.

25. EQUIPMENT, MATERIALS, AND FUEL STORAGE AND REFUELING OPERATIONS SHALL BE SITUATED IN AN UPLAND AREA AT A HORIZONTAL DISTANCE GREATER THAN 100 FEET FROM THE BOUNDARIES OF WETLANDS.

26. CONTRACTOR TO PLACE 12' AND 24' CONSTRUCTION ENTRANCES AT APPROPRIATE LOCATIONS

27. THE CONTRACTOR SHALL UPDATE AND MAINTAIN THE SWPPP PER THE CONSTRUCTION GENERAL PERMIT.

28. NO STOCKPILES OR MATERIALS SHALL BE STORED IN THIS LOCATION AFTER THE STORM CHAMBER SYSTEM HAS BEEN INSTALLED.

SCALE:
1" = 20'
20 10 0 20 40

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DATE	ISSUANCE
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05/14/2010	REV 1- BULLETIN #0003

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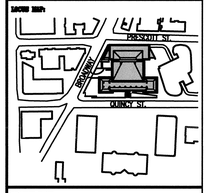
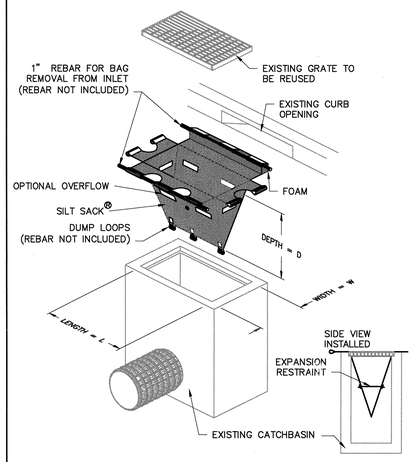
KNOW MAP:


PROJECT NAME:
32 QUINCY STREET EXPANSION AND RENOVATION
Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138
Harvard Building No. 455
Project No. 07-001

DRAWING TITLE:
STORMWATER_POLLUTION PREVENTION_PLAN

CAD FILE NAME	6677CUT.DWG
DRAWING SCALE	1"=20'
DRAWING NUMBER	C4.00

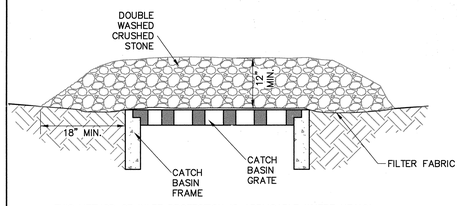


CB–SILT SACK

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND OR CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL BE DECREASED WITH THIS METHOD AND THE CONTRACTOR SHALL EXPECT PONDING DURING HIGH FLOW EVENTS

CATCH BASIN W/ SILTSACK INLET PROTECTION (IP)

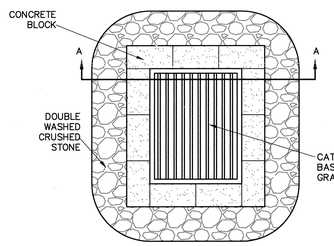
NOT TO SCALE



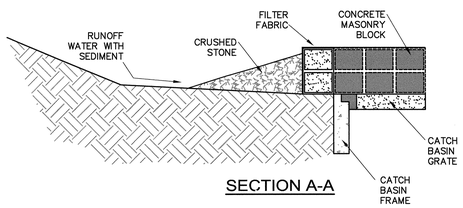
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

CATCH BASIN W/ GRAVEL INLET PROTECTION (IP)

NOT TO SCALE



PLAN

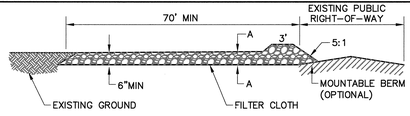


SECTION A-A

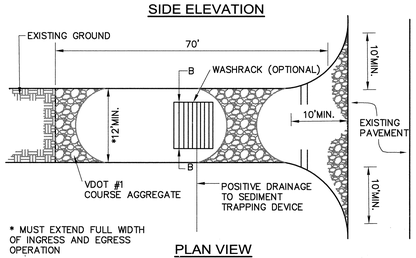
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE.

CATCH BASIN W/ BLOCK AND GRAVEL INLET PROTECTION (IP)

NOT TO SCALE

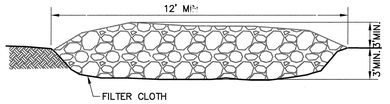


SIDE ELEVATION

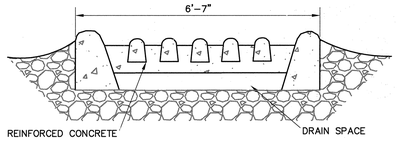


* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

PLAN VIEW



SECTION A-A

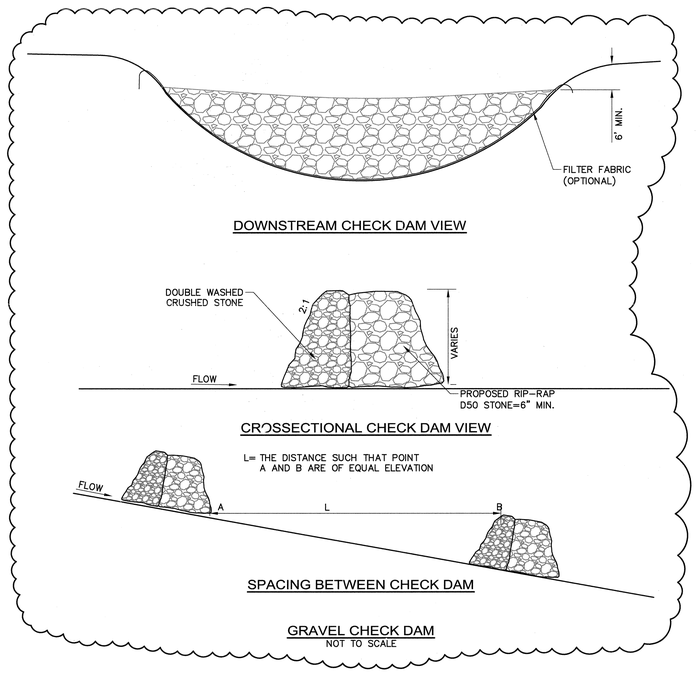


SECTION B-B

STONE CONSTRUCTION ENTRANCE (CE)

NOT TO SCALE

STONE CONSTRUCTION ENTRANCE



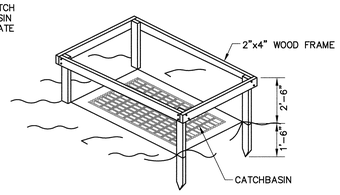
DOWNSTREAM CHECK DAM VIEW

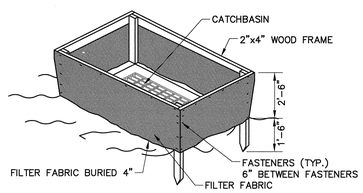
CROSSECTIONAL CHECK DAM VIEW

SPACING BETWEEN CHECK DAM

GRAVEL CHECK DAM

NOT TO SCALE



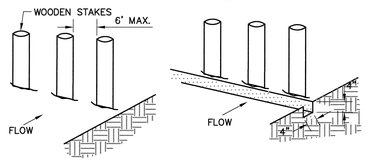


THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAT 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT GREATER THAN 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLET RECEIVING CONCENTRATED FLOWS.

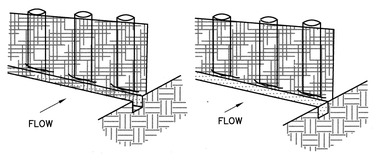
CATCH BASIN W/ FILTER FABRIC INLET PROTECTION (IP)

NOT TO SCALE

1. SET THE STAKES
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES

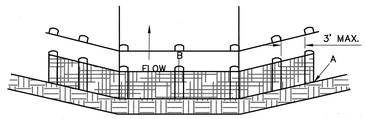


3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH
4. BACKFILL AND COMPACT THE EXCAVATED SOIL



SHEET FLOW INSTALLATION

(PERSPECTIVE VIEW)



POINTS A SHOULD BE HIGHER THAN POINT B

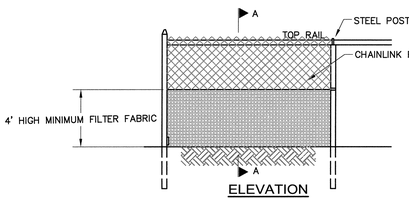
DRAINAGE INSTALLATION

(FRONT ELEVATION)

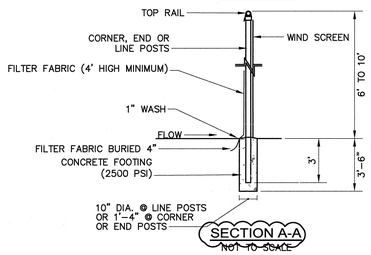
SILT FENCE CONSTRUCTION (SF)

NOT TO SCALE

SILT FENCE CONSTRUCTION



ELEVATION



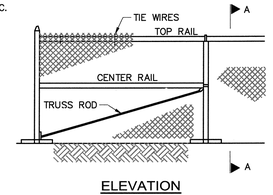
SECTION A-A

NOT TO SCALE

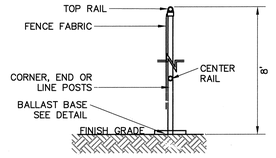
1. CHAINLINK FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. FILTER FABRIC SHALL BE FASTENED SECURELY TO CHAINLINK FENCE WITH TIES SPACED HORIZONTALLY 24" AS THE TOP AND MIDSECTION.
3. WHEN TWO SECTIONS OF FILTER FABIRC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6"
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL SHALL BE REMOVED WHEN SEDIMENT BUILD–UP REACHES 50% OF THE HEIGHT OF THE FILTER FABRIC.
5. MAINTENANCE OF SILT FENCE SHALL BE RECORDED TO IN THE SWPPP

SUPER SILT FENCE (SF)

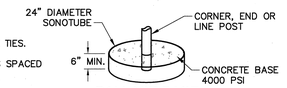
SUPER SILT FENCE



ELEVATION



SECTION A-A



BALLAST BASE

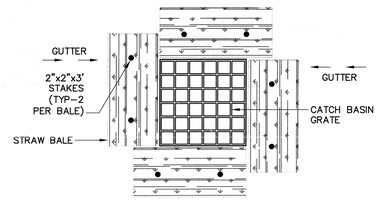
NOTES

1. END, GATE AND CORNER POSTS SHALL BE BRACED TO ADJACENT LINE POSTS. (MORE THAN 30° CHANGE IN DIRECTION CONSTITUTES A CORNER)
2. FABRIC SHALL BE 0.148" GAUGE MIN. WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
3. ZINC–COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH PRIME WESTERN SPELTER OR EQUAL.
4. ALUMINUM COATED STEEL FABRIC BASE METAL SHALL BE COATED WITH ALUMINUM ALLOY.
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.
8. SEE SPECIFICATION

TEMPORARY CONSTRUCTION CHAIN LINK FENCE WITH BALLAST BASE (CF)

NOT TO SCALE

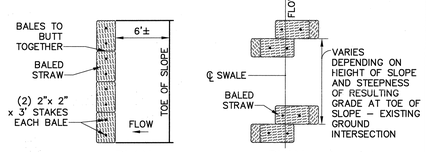
TEMP CONSTRUCTION FENCE



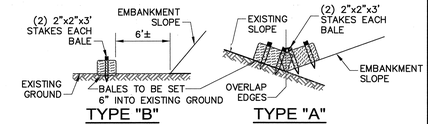
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAT 5%) WHERE THE INLET INLET SHEET OR OVERLAND FLOWS (NOT GREATER THAN 1 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLET RECEIVING CONCENTRATED FLOWS. THIS USE OF THIS METHOD SHOULD NOT EXCEED 3 MONTHS WITHOUT REPLACEMENT OF STRAW BALES.

CATCH BASIN W/ STRAW BALES INLET PROTECTION (IP)

NOT TO SCALE


BALES TO BUTT TOGETHER
6'±
BALED STRAW
(2) 2"x 2" x 3' STAKES EACH BALE
TOE OF SLOPE
FLOW
FLOW
℄ SWALE
BALED STRAW
VARIES DEPENDING ON HEIGHT OF SLOPE AND STEEPNESS OF RESULTING GRADE AT TOE OF SLOPE – EXISTING GROUND INTERSECTION

PLAN PLAN



TYPE "B" TYPE "A"

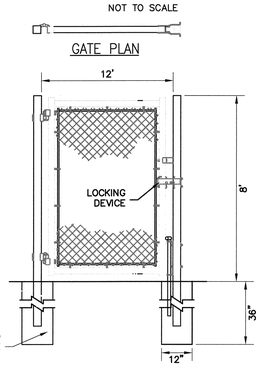
NOTE: TO BE USED WHERE EXISTING GROUND SLOPES AWAY FROM THE TOE OF THE EMBANKMENT

NOTE: TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE TOE OF THE EMBANKMENT

BALED STRAW EROSION CHECKS

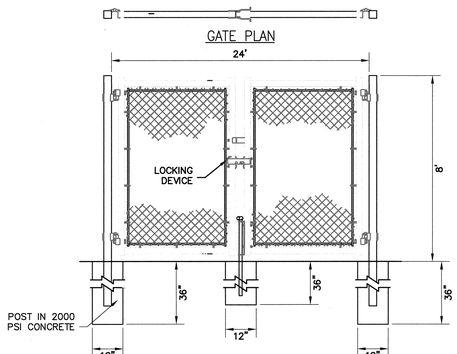
NOT TO SCALE

HAYBALE



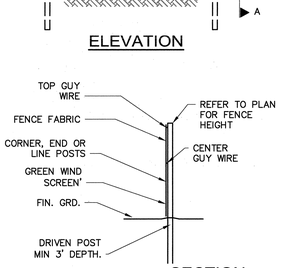
12' WIDE EMERGENCY GATE

NOT TO SCALE



24' WIDE DOUBLE GATE

NOT TO SCALE



ELEVATION

CONSTRUCTION FENCE AND GATE NOTES

1. FABRIC SHALL BE 0.148" WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
2. THE FENCE FABRIC SHALL BE ZINC COATED STEEL OR ALUMINUM COATED STEEL.
3. FENCE POSTS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).
4. THE CONTRACTOR SHALL ADD A GREEN WIND SCREEN
5. LINE POSTS SHALL BE 2½" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.

SECTION

CHAIN LINK CONSTRUCTION FENCE (CF)

NOT TO SCALE

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DATE	REMARK
03/31/2010	REV 0– CONTRACT DOCUMENTS
05/14/2010	REV 1– BULLETIN #0002

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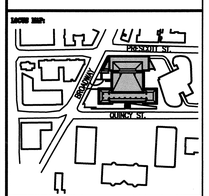

32 QUINCY STREET EXPANSION AND RENOVATION
Harvard Art Museum
32 Quincy St.
Cambridge, MA 02138
Harvard Building No. 455
Project No. 07–001

DRAWING TITLE
STORMWATER_POLLUTION PREVENTION_DETAILS

CAD FILE NAME	6677CUT.DWG
DRAWING SCALE	1"=20'
DRAWING NUMBER	C4.01